

WILLIAM W. PEARSON

Education: M. S., May 2002
University of Wisconsin, Stevens Point, WI
Major: **NATURAL RESOURCES WITH AN EMPHASIS IN SOIL SCIENCE**
Thesis: Residual Soil Nitrogen and Nitrogen Response of Corn on Sandy Loam Soil

B. S., December 1985
University of Wisconsin, Madison, WI
Major: **AGRONOMY AND HORTICULTURE**

Work Experience: New Mexico Env. Dept. – Ground Water Quality, Santa Fe, NM 2004- Present
GEOSCIENTIST/AGRONOMIST.
Review, edit, and complete written discharge permits for agricultural, industrial, and domestic facilities which must be technically sound, well written, clear and concise while being protective of groundwater quality. Review proposed wastewater permit applications from agricultural, industrial, and domestic applicants for technical completeness and regulatory compliance. Collect routine soil nutrient, soil nitrogen, wastewater, animal feed and surface and groundwater samples for analysis, summarize, evaluation and interpretation and compliance with State of New Mexico Ground Water Quality Standards. Conduct field inspections of facilities for compliance with the State of New Mexico Ground Water Quality Standards. Evaluate nutrient management plans, CNMP's and specific conditions within discharge permit for proper agronomic performance. Conduct public meeting and formal hearings for interest citizens concerning discharge permit conditions. Collaborate with University of New Mexico researchers on the environmental affects of dairy wastewater on public health. Summarize and manage soil and groundwater data for department review and compliance with state groundwater quality standards using ArcView (GIS), GPS, Microsoft Excel, Power Point and Word. Review, edit and change individual permit condition language for technical completeness, sound agronomic management, improve readability and regulatory compliance.

University of Wisconsin-Extension, Stevens Point, WI 2002-2004
ON-FARM RESEARCH COORDINATOR. Work directly with University of Wisconsin and ARS researchers, NRCS staff, farmers, and graduate and undergraduate students to design and install water quality experiments, design field plots, and collect, tabulate, statistically analyze and summarize data using ArcView (GIS), GPS, SNAP, SNAP2000, SNAP-Plus, Microsoft Excel, Power Point and Word, RUSLE2 and SAS. Write reports and grant proposals to fund agricultural research that investigates and evaluates the impacts of site-specific production and management practices on soil erosion, nutrient concentrations, runoff volumes, sediment loading, nitrate-nitrogen leaching, agricultural chemicals and crop yields. Baseline data is collected on working farms throughout the state in order to take into account the economic and environmental impacts. Additional projects include the

Work
Experience con't: development of SNAP-Plus nutrient management model which incorporates the RUSLE2 soil erosion model, evaluation of the RUSLE2 soil erosion model for easy of use and accuracy, and the evaluation of the Wisconsin Phosphorus Index model for accuracy and functionality. Install, maintain and calibrate automated surface and groundwater collection equipment for analysis of nutrients and sediment concentrations. Collect routine soil nutrient, soil nitrogen and surface and groundwater samples for analysis, summary and interpretation.

Waupaca Land and Water Conservation Dept., Waupaca, WI 1995-2002
WATERSHED TECHNICIAN/AGRONOMIST. Developed and presented the Nutrient Management Farmer Education Program, in conjunction with the University of Wisconsin Extension staff and NRCS staff, to implement nutrient management and conservation plans tailored to reducing nutrient inputs and soil erosion for irrigated vegetable and dryland dairy farmers' individual needs. Initiated, organized and coordinated the development of computer software program, SNAP and SNAP2000, for crop nutrient recommendations within the State of Wisconsin. Worked directly with farmers and NRCS staff to engineer and install conservation practices including grassed waterways, sediment basins, roof water control systems, water diversion systems, wetlands, manure containment systems and other practices specific to individual farmers' needs. Used computer software programs including AutoCAD, ArcView, Excel spreadsheets, and DOS based engineering programs to design, develop and assist in developing hundreds of conservation practices. Designed and implemented a rotational grazing network which includes technical assistance and seasonal pasture walks. Evaluated the effects of legume/grass mixes on soil quality, soil nitrate levels, soil erosion and crop yield interseeded into corn. Collaborated and assisted with ARS and University of Wisconsin researchers on two projects which investigated the groundwater quality impacts from abandoned feed lots, and the groundwater quality impacts from grazing systems.

Farmer Services Cooperative, Amherst Junction, WI 1994-1995
CROP SPECIALIST. Communicated new research and production ideas and reduced-input cropping systems to farmers. Advised farmers in the planting of field, forage and vegetable crops; nutrient and irrigation techniques and practices; pest identification and control; cover crop use; while creating and maintaining positive working relationships. Collected, submitted, analyzed and summarized soil test data for specific crop nutrient recommendations. Implemented integrated pest management techniques used in field, forage and vegetable production and directed the efficient and proper use of pesticides.

Stokely USA, Inc., Oconomowoc, WI 1989-1994
FIELD REPRESENTATIVE. Managed the land preparation, planting, fertilization, pest scouting and harvesting of 15,000 acres of vegetable crops (peas, green beans, sweet corn) to successfully meet quality production goals. Interviewed, selected, scheduled, and trained up to 25 seasonal employees each growing season for safe and efficient harvest. Used integrated pest management techniques to scout and identify pests of vegetable crops, and direct efficient and proper use of

Work Experience con't: pesticides. Advised vegetable farmers on tillage, planting, nutrient applications, pesticide use, cover crop use and irrigation techniques. Maintained planting equipment, seed inventory and production records.

Rogers NK Seed Company, Boise, ID

1985-1989

RESEARCH TECHNICIAN. Research coordinator of Wisconsin vegetable (peas, green beans, sweet corn, cucurbits) research trials. Organized and managed land preparation, planting, irrigation, fertilization, small plot equipment, weed and insect control, varietal evaluation for disease resistance, quality and yield, employee hiring and supervision, and data collection and interpretation. Traveled to winter locations in California, Florida and Hawaii to evaluate, select and propagate germplasm, evaluate varietal response to different climates, soils, pests and nutrients. Managed the harvest, cleaning, storage and packaging of seeds for distribution to other research locations.

Professional Memberships and Awards:

Certified Professional Agronomist with the American Registry of Certified Professionals in Agronomy, Crops and Soils (ARCPACS)
American Society of Agronomy Member

